

MM0401

Giolitti-Cantoni Broth

Use and description:

Anaerobic enrichment broth for *Staphylococcus aureus*. Sodium pyruvate and the high mannitol concentration support the growth of staphylococci while the lithium chloride content inhibits the growth of gram negative bacteria. The other gram positive organisms are inhibited by the potassium tellurite and glycine.

Composition per liter:

Tryptone	10.0 g
Meat extract	5.0 g
Mannitol	20.0 g
Yeast extract	5.0 g
Lithium chloride	5.0 g
Sodium chloride	5.0 g
Glycine	1.2 g
Sodium pyruvate	3.0 g
Tween 80	1.0 g

Final pH of the ready to use medium: 6.9± 0.2

Medium preparation:

Add 55 grams of dehydrated culture medium to 1 liter of distilled water, heat gently with stirring until evenly dispersed. Dispense 19 ml medium into a tube and sterilise at 121 °C for 15 minutes. Cool to 45-50 °C and aseptically add 0.3 ml 3,5 % sterile Tellurite solution to each tube. Inoculate 1 ml of diluted sample to 19 ml medium. Dose 20 mm melted paraffin to the top of the tube for anaerobic conditions. Incubate at 35 °C for 24 hours.

Quality specification:

Dehydrated medium: homogeneous, yellow-brown, fine powder.

Ready to use medium: yellow-brown broth

Microbiological response:

Organisms	Result / blackening
<i>Stap. Aureus</i> ATCC 25923	growth / +
<i>E. coli</i> ATCC 25922	inhibited

Storage:

Dehydrated medium should be stored between 10 to 25°C. Once opened, place the container in a dark, dry place. The dehydrated medium should not be used if there is any lump or the color has changed from the original.